

Energy Star Partner of the Year Submission – VBCPS Supporting Documentation

Included in this submission:

- *Executive Summary submitted for award;*
- *Screenshot from VBCPS Energy Management SharePoint site, which includes Energy Star;*
- *The VBCPS “Energy Star Wall of Fame;”*
- *Slides from various presentations by VBCPS Energy Star Champions to students, staff, management, and peer groups which were either about Energy Star or included Energy Star as a feature of our energy management program; and*
- *An example of communication with each VBCPS Principal, which includes a review of the VBCPS Energy Star effort to date and their building’s score*

Executive Summary:

Virginia Beach City Public Schools (VBCPS) has a reputation as a champion for efficiency and sustainability. This includes an inventory of new LEED facilities, internal teacher- and student-led sustainability initiatives, and several industry recognitions. In 2011, VBCPS started incorporating Energy Star as a standard of efficiency for our existing buildings much in the way that we use LEED for new facilities.

Our first facility to earn this recognition was Providence Elementary School, which was designated for its efficiency during 2010. Built in 1981, Providence recently had energy-efficient retrofits, including HVAC modification to a ground-source system and relamping. For the 2010 year, VBCPS had 5 elementary schools (410,586 square feet) certified. For 2011, VBCPS added Renaissance Academy, our first secondary school and LEED building to become an Energy Star facility.

In 2012, building off that success, we stepped up our efforts. As of the date of this submission, VBCPS more than tripled our number of Energy Star facilities, with 21 schools and 2,286,260 square feet of Energy Star space. We also have one additional renewal and one more new school under review for the 2012 year.

Displaying the Energy Star logo on the buildings is a reminder to the community of our commitment to energy conservation and fiscal responsibility. This is an important segment of our sustainability portfolio, and is particularly significant for those schools which are not LEED facilities and want to earn national-level recognition for their efforts. We have communicated our efforts and the evolving success of them to individual schools, VBCPS’s leadership Cabinet, and even in public School Board meetings. We have emphasized how this also translates to dollars saved for our taxpayers. In an era of tight budgets and increased scrutiny, we see this as an important support tool for our infrastructure management.

Energy Management SharePoint Site (screen shot) – accessible to all Principals and Assistant Principals:

Arrows added to show that Energy Star is a major element of this communication device

vbeps.com Energy Management Office 365

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Shared Documents

Type	Name	Modified By
	ApplianceMemo-06April2009	Jim Morris
	Energy Star Status - Sept12	Jim Morris
	Year-End Comparison-FY10FY11	Jim Morris
	EnergyStarStatus-110907	Jim Morris
	Fast Facts on Energy Use	Jim Morris
	Energy Management Memo From 1979	Jim Morris
	Artile-SevenStepsEnergyEfficiency-DominionAdvisor110404	Jim Morris
	EnergyManagementPlan-Version1.1Update	Jim Morris
	RankedUse-MidYearUpdate(FY11)	Jim Morris
	RankedPercentages-MidYearUpdate(FY11)	Jim Morris
	DegreeDaysChart-ThroughDecemberFY11	Jim Morris
	DominionSummerTips-July10	Jim Morris
	UsePerSquareFoot-ThruMayFY10	Jim Morris
	RankedUse-ThruMayFY10	Jim Morris
	CostPerSquareFoot-ThroughMayFY10	Jim Morris
	TopTen-ThruMayFY10	Jim Morris
	Article-EnergyAdvisor-March09-75Tips	Jim Morris
	DegreeDaysComparison-FY2010	Jim Morris

Links

Type	Edit	URL	Notes
		DASS Intranet Home Page	
		School Plant's Work Request System: School Dude	
		Who Does What: School Building Maintenance	
		Department of Energy's "Energy Savers" web site	
		Energy Star for Schools	
		Energy Star Schools in Virginia Beach!	
		K-12 Lesson Plans - Environmental and Indoor Air Quality	
		Energy Star Kids' Site	
		Energy Management/VBCPS Green Curriculum Enhancement Site (Noresco)	Energy Conservation through Behavior Change

Team Discussion

Subject	Created By	Replies	Last Updated
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There are no items to show in this view of the "Team Discussion" discussion board. To add a new item, click "New".

Energy Management/VBCPS Green Curriculum Enhancement Site (Noresco)

The “Energy Star Wall of Fame” – displayed at the entrance to our Corporate Landing Administrative Support Services Annex:

Shown is Susan Albert, Financial Assistant who has been one of the key individual champions of this effort




Slides from presentation by Susan Albert about Energy Star in a recent *Facility Masters* webcast:


Facility Masters Webcast Series


This series is made possible by


Today's Speakers

 Roger Young,
FacilityMastersOnline.com

Katy Hatcher,
EPA


 David Cone,
Evergreen Public Schools

 Justin Turner
SchoolDude.com


 Susan Albert,
Virginia Beach Public Schools

Facility Masters Webcast Series

This series is made possible by

 **VIRGINIA BEACH CITY PUBLIC SCHOOLS**
AHEAD OF THE CURVE

On the Path to Energy STAR—

 **Susan Albert**
Environmental and Energy Services
Virginia Beach City Public Schools

From December, 2011:

From May, 2012:

- * Halfway through year, use is ~5% below last year
- * Project ~3-4% decrease in use from FY10
- * Mild winter has worked in our favor
- * Other energy savings initiatives
 - * Performance contracting
 - * “Greening” of the Division
 - * Increased awareness



Slides from presentation to middle school students interested in Science, Technology, Engineering, and Math (STEM) by Jim Morris:



Communication with Principals to encourage support:

From semi-annual utility memoranda sent by Jim Morris and Susan Albert to individual principals to inform them of their buildings' use

<snip>

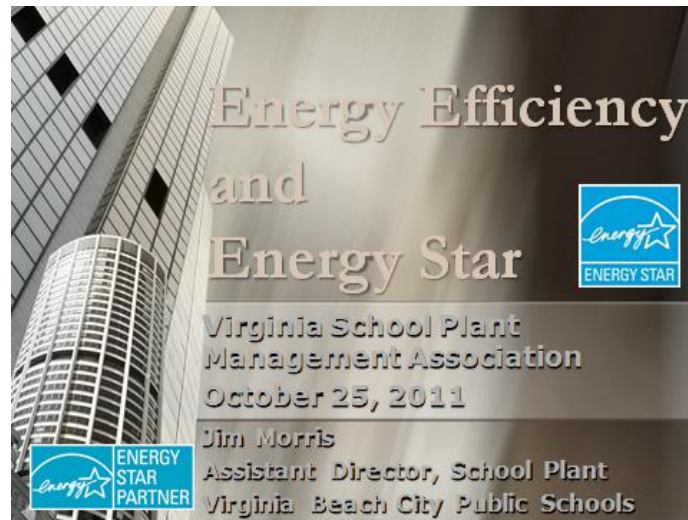
We also continue to use the EPA's *Energy Star* program to compare our buildings against other schools across the country. Over the last year (our first full year in the program), we expanded our inventory of *Energy Star* buildings to 21 schools (from 6 last year):

- | | | |
|---------------------------------|-------------------------------|-----------------------------|
| • Arrowhead ES (2010) | • Bayside HS (2012) | • Point O' View ES (2012) |
| • Diamond Springs ES (2010) | • Corporate Landing ES (2012) | • Princess Anne ES (2012) |
| • Three Oaks ES (2010) | • Fairfield ES (2012) | • Rosemont Forest ES (2012) |
| • Brookwood ES (2010-12) | • First Colonial HS (2012) | • Shelton Park ES (2012) |
| • Providence ES (2010-12) | • Kellam HS (2012) | • Thalia ES (2012) |
| • Renaissance Academy (2011-12) | • Kingston ES (2012) | • Trantwood ES (2012) |
| • Alanton ES (2012) | • Lynnhaven MS (2012) | • Williams ES (2012) |

This gives the division nearly 2.3 million square feet of Energy Star space. For comparison, your building's current score is \leq (buildings with a score of 75 or higher qualify for possible designation). Here's to hoping for even more on this list for 2013!

<end snip>

Sample slide from presentation by Jim Morris at Virginia School Plant Management Association conference (one-hour breakout session at state conference):



Energy Efficiency and Energy Star

Virginia School Plant
Management Association
October 25, 2011

Jim Morris
Assistant Director, School Plant
Virginia Beach City Public Schools

ENERGY STAR PARTNER



Energy Star K-12 Partners

- 988 in US; 22 in Virginia
- COST = \$0

Albemarle County Public Schools	K-12 Education	Virginia
Alexandria City Public Schools	K-12 Education	Virginia
Alexandria City Public Schools	K-12 Education	Virginia
Arlington Public Schools	K-12 Education	Virginia
City of Chesapeake Public Schools, Virginia	K-12 Education	Virginia
Fairfax County Public Schools	K-12 Education	Virginia
Gloucester County Public Schools	K-12 Education	Virginia
Halifax County Public Schools	K-12 Education	Virginia
Hanover County Public Schools	K-12 Education	Virginia
Henry County Public Schools	K-12 Education	Virginia
Hopewell City Public Schools	K-12 Education	Virginia
Loudoun County Public Schools	K-12 Education	Virginia
Lynchburg City Schools	K-12 Education	Virginia
Norfolk Public Schools	K-12 Education	Virginia
Orange County Public Schools	K-12 Education	Virginia
Richmond Public Schools	K-12 Education	Virginia
Spotsylvania County Public Schools	K-12 Education	Virginia
Staunton City Schools	K-12 Education	Virginia
Virginia Beach City Public Schools	K-12 Education	Virginia
Williamsburg James City County Public Schools	K-12 Education	Virginia



Sooo...WHY Energy Star?

- Recognized, established program
- Excellent and diverse support tools
- Very good customer support
- Can't beat the cost!
 - Most programs at no cost
 - Often only cost is P.E. review
 - Can be done in-house
 - Even the plaque is only ~\$200
- Can use as an terrific motivator

From internal training on energy efficiency by Susan Albert and Jim Morris to VBCPS maintenance personnel:

ENERGY-Eyes and Ears

Jim Morris, Assistant Director
and
Susan Albert, Financial Assistant

UTILITIES







LEARN MORE AT
energystar.gov






Top performing **ENERGY STAR** labeled schools cost forty cents per square foot less to operate than the average performers

Lighting accounts for up to 35% of building energy use
And lighting upgrades can cut total energy consumption by 17%

More than 14,000 buildings have earned the ENERGY STAR label and more than 5,000 are schools.

VBCPS ENERGY STAR Stats:


- ❖ 10 separate buildings approved
- ❖ 8 submitted and pending EPA approval
- ❖ 4 more to be submitted within the next two weeks

BOTTOM LINE: When all are approved more than 2 million Sq. Ft is ENERGY STAR certified


Getting an Energy Star Rating


Electric
Natural Gas

Cooking facilities
SQUARE FOOTAGE
BUILDING SPACES



➔





ENERGY STAR Labeled Buildings & Plants

Showing Energy Star Labeled Buildings in Virginia Beach, VA

Building Name	Address	City	State	Zip	Year Built	Size (sq. ft.)	Score	Label Type
Hampton Roads Community College	1000 S. 1st St.	Virginia Beach	VA	23462	1980	1,000,000	85	Commercial
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VBCPS was the FIRST school system in South Hampton Roads to earn the Energy Star designation.